

C L A I M S

1. Remotely controlled gyrostabilized operator crane containing:  
a boom (1) mounted on the vertical support (7) with the possibility  
of the vertical turning and connected with the vertical drive of the boom (11),  
wherein the vertical support (7) is mounted on the base 12 with the possibility  
of the horizontal turning and connected with the drive of the vertical support  
(16), a hinge link (17) for placing movie and television shooting equipment (18)  
mounted on the end of the boom with the possibility of turning around the  
horizontal axis of suspension of the hinge link (19), perpendicular to the axis of  
the boom (5), connected with the drive of the hinge link (21) by a mechanism  
of parallelogram type (22), a counterweight (26) mounted in the tail part of the  
boom, a control board (34) and electronic blocks for vertical and horizontal  
turning of the boom (40, 37) characterized in that the boom (1) contains an  
inner part (2) formed with the possibility of turning along the axis of the boom  
(5), connected with the drive of the inner part of the boom (6) and the hinge link  
(17).

BEST AVAILABLE COPY

2. Remotely controlled hydrostabilizer operator crane according to claim 1, characterized in that the mechanism of the parallelogram type (22) is composed of a driving and a driven block (23, 24) connected by a cable (25).

3. Remotely controlled hydrostabilizer operator crane according to claim 1, characterized in that it includes a gyroscopic sensitive element of the hinge link (27) mounted on it so that its measuring axis is parallel to the axis of suspension of the hinge link (19), a gyroscopic sensitive element in the inner part of the boom (30) mounted on it so that its measuring axis is parallel to the axis of the boom (5), a gyroscopic sensitive element of the boom (32) mounted on it so that its measuring axis is parallel to the axis of suspension of the boom, the gyroscopic sensitive element of the vertical support 33 mounted on it so that its measuring axis is parallel to the axis of suspension of the vertical support (15) relative to the base, longitudinal transverse accelerometers (28, 29) mounted on the hinge link 19 so that their measuring axes and the axis of suspension of the hinge link are mutually perpendicular, the transverse accelerometer (21) mounted on the inner part of the boom (2) so that its measuring axis is parallel to the axis of suspension of the hinge link (19), electronic blocks of the hinge link and the inner part of the boom (47, 48), wherein the first input of the electronic block of the hinge link (48) is connected with the output of the longitudinal accelerometer (28), the second input of the electronic block of the hinge link (49) is connected with the output of the

gyroscopic sensitive element of the hinge link (27), the output of the electronic block of the hinge link (47) is connected with the input of the drive of the hinge link (21), the first input of the electronic block of the inner part of the boom (45) is connected with the output of the transverse accelerometer (31), the second input of the electronic block of the inner part of the boom 46 is connected with the output of the gyroscopic sensitive element of the inner part of the boom (30), the output of the electronic block of the inner part of the boom (44) is connected with the input of the drive of the inner part of the boom (6), the input of the electronic block of the vertical turning of the boom (40) is connected with the output of the control board for the vertical turning of the boom (36), the second input of the electronic block of the vertical turning of the boom (42) is connected with the output of the gyroscopic sensitive element of the boom (32), the first input of the electronic block of the vertical turning of the boom (43) is connected with the input of the vertical accelerometer (29), the output of the electronic block of the vertical turning of the boom (40) is connected with the input of the vertical drive of the boom (11), the first input of the electronic block of the horizontal turning of the boom (38) is connected with the output of the gyroscopic sensitive element of the vertical support (33), the second input of the electronic block of the horizontal turning of the boom (39) is connected with the output of the control board for the horizontal turning of the boom (35), the output of the electronic block for the horizontal turning of the boom (37) is connected with the input of the drive of the vertical support (16).

4. Remotely controlled hydrostabilizer operator crane according to claim 1, characterized in that the vertical drive of the boom (11), the drives of the inner part of the boom and the hinge link (6, 21) are mounted in the tail part of the boom (1) and perform the function of a counterweight.

000000000000000000000000

BEST AVAILABLE COPY